Abstract of the Disclosure

Disclosed is an automatic blood pressure measuring instrument and method designed to obtain a pulse wave signal and electrocardiogram (ECG) signals from a pressure sensor and an ECG monitor, to analyze correlation between both signals, to

5   operate a maximum blood pressure and a minimum blood pressure based on the analyzed data, and to output the operated result to a display. The automatic blood pressure measuring instrument comprises a pressure sensor for obtaining a pulse wave from a wrist of the subject, a pulse wave signal processing section for amplifying, filtering and noise-removing the pulse wave applied from the pressure sensor, an

10   electrocardiogram monitor for measuring a systolic blood pressure and a diastolic blood pressure and converting the measured results into electrical signals, an electrocardiogram signal processing section for amplifying, filtering and noise-removing the converted electrocardiogram measurement signals applied from the electrocardiogram monitor, an A/D converting section for converting the AC signals,

15   which are applied from both the pulse wave signal processing section and the electrocardiogram signal processing section, into DC signals, a controlling section for comparing and analyzing the pulse wave signal and the electrocardiogram signals applied through the A/D converting section to operate the blood pressure of the subject, and a display for displaying the blood pressure of the subject operated at the controlling

20   section.